PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic signal at the intersection of MD 355 (Frederick Road) with the WB I-370 Off-Ramp and O'Neill Drive in Montgomery County.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 5-phase, semi-actuated mode. The left turn phase along NB MD 355 shall operate with exclusive-permissive left turn phasing. O'Neill Drive and WB I-370 Off-Ramp approaches will operate under split phasing. Video detection will be installed at this location.

- 1. For final pavement markings, refer to the pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.

- labeling each cable.

 All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections.

 The contractor shall be responsible for delivering the video interface equipment to the Montgomery County Signal Shop. County forces will complete the retrofit of all signal equipment.

 All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer Immediately so that the conflict may be resolved.

 Controller, cabinet, and APS equipment shall be purchased from Econolite and delivered to the Montgomery County Signal Shop for wiring and testing prior to installation.
- Shop for wiring and testing prior to installation.
 The contractor shall maintain interconnect throughout all construction phases.
- APS will function as follows: TO CROSS I-370 RAMP
 - When pedestrian locates and presses pushbutton for extended time, the audible message will be "Wait to cross I-370 Ramp at Frederick Road."

 When Walk phase begins, the message will be a rapid tick which will last for the duration of the Walk phase. a.
- TO CROSS O'NEILL DRIVE
- When pedestrian locates and presses pushbutton for extended time, the audible message will be "Wait to cross O'Neill Drive at Frederick Road."
- b. When Walk phase begins, the message will be a rapid tick which will last for the duration of the Walk phase.

 9. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60" X 60" level landing area with a cross slope of less than or equal to 2%.

 10. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center of
- pole to center of pole.

MR. RICHARD DAFF SR.

MR. ROBERT SNYDER

MR. ED RODENHIZER

410-787-7630

410-787-7650

410-787-7670

DESCRIPTION

- Pushbutton arrows are to be parallel to the crossing for which they are intended.
 Location of accessible pedestrian signal pushbuttons must meet location requirements of MD MUTCD Sec. 4E.09 and Fig. 4E.2 and the NCHRP publication "Accessible pedestrian signals: Guide to best practice." If not met, the contractor is to stop work on pushbutton locations until a design waiver is obtained, approved by the Director, Office of Traffic & Safety.

OFFICE OF TRAFFIC AND SAFETY

TEAM LEADER SIGNAL OPERATIONS

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS

ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS

SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)

CHIEF, TRAFFIC OPERATIONS

CONTACTS

DISTRICT (THREE) MR. JEFFREY WENTZ

ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7318

MR. KEVIN NOWAK

ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7336

301-513-7304

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE

UTILITY ENGINEER 301-513-7350

MONTGOMERY COUNTY

MR. KETTH LORD MR. KAMAL HAMUD

TRAFFIC ENGINEER - MCTMC 240-777-8761

EQUIPMENT LIST

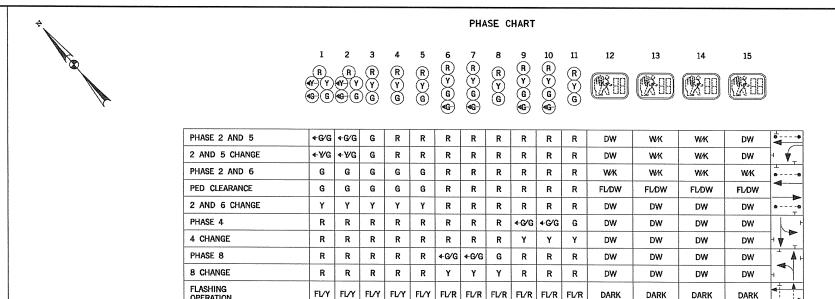
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

NONE

CAT CODE UNITS QUANTITY

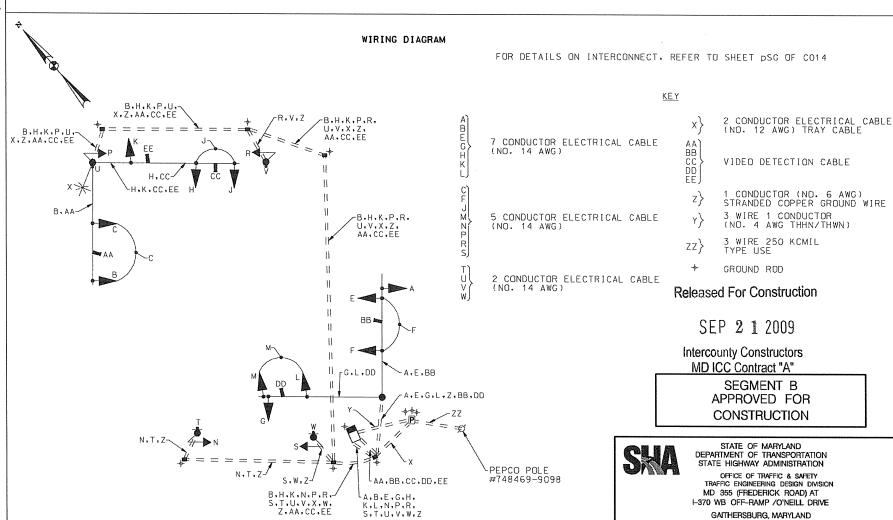
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CAT CODE	UNITS	QUANTITY	DESCRIPTION
203030	CY	3.5	TEST PIT EXCAVATION
500000	LF	275	12 INCH WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING
500000	LF	150	24 INCH WHITE PERMANENT PREFORMED THERMO, PAVEMENT MARKING
800000	EA	3	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT
800000	EA	1	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION SIGNAL POLE MOUNT
800000	EA	1	AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT
800000	EΑ	4	AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION
800000	EΑ	2	CONTROL CABLE 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
800000	EA	1	CONTROL CABLE 300 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
800000	EA	2	CONTROL CABLE 400 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
800000	EA	1	ECONOLITE CABINET AND CONTROLLER WITH VIDEO INTERFACE
801004	CY	10	CONCRETE FOR SIGNAL FOUNDATIONS
801605	SF	154	SHEET ALUMINUM SIGNS
802501	LF	350	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805118	LF	190	4 INCH SCHEDULE 80 PVC CONDUIT - BORED
805125	LF	30	2 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED
805135	LF	30	3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED
805140	LF	190	4 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED
807202	EA	1	METERED SERVICE PEDESTAL
811001	EA	6	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816001	EA	5 3	VIDEO DETECTION CAMERA
818004	EA		10 FOOT BREAKAWAY PEDESTAL POLE
818021	EA	1	STEEL POLE WITH TWIN 50 FOOT MAST ARMS
818050	EΑ	1	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS
821003	EΑ	2	BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
831010	EA	1	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
837001	EA	10	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH
860284	EA	41	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	LF	590	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	LF	680	ELECTRICAL CABLE - 5 CONDUCTOR (ND. 14 AWG)
861108	LF	1380	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	LF	300	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
861117	LF	60	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
866103	EA	1	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE



OPERATION

INTERCOUNTY CONSTRUCTORS



REVISIONS

PLOTTED: TUESDAY, SEPTEMBER 21, 2009 AT 09:39 AM FILE: C:\PW_WORKING_XM\PTG\C0038662\PSG-N001_[CC-A.DGN

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GAITHERSBURG, MARYLAND

GENERAL INFORMATION SHEET SCALE NOT TO SCALE DATE OCT. 2007 CONTRACT NO. AT3765960

COUNTY_

LOGMILE

TOD NO.

SHEET ND.

DESIGNED BY A GRIFFIN

DRAWN BY A GRIFFIN

CHECKED BY K. RINIKER

F.A.P. NO. AC-NH-ICC-1(1)N

TS NO.4806 DRAWING PSG OF NO01

MONTGOMERY